Discrete Applied Mathematics
Combinatorial Algorithms, Optimization and Computer Science

Guide for Authors

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- Original research articles.
- Review articles, providing a comprehensive review on a scientific topic.
- Communications: Fast, short, self-contained articles on ongoing research, or reporting interesting possibly tentative ideas, or comments on previously published research. See note below on how to submit a Communication.
- Postscript Articles: Short updates to previously published articles in Discrete Applied Mathematics. See section below for more details on this kind of article.

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The name, complete postal address, telephone, fax numbers and the e-mail address of the author(s) should be given on the first page of the manuscript.
Each paper should be introduced by three to five keywords and a selfcontained abstract of no more than 100 words, not counting the formulas.
Please make sure that the paper is submitted in its final form. Corrections in the proof stage other than printer's errors should be avoided: costs arising from such corrections will be charged to the authors.
Footnotes should be avoided if possible, but if they are included they should be brief and numbered consecutively.

References should be listed alphabetically, as in the following examples: books [1], articles in journals [2], papers in a contributed volume [3,4], unpublished papers [5].

[1] E. Borger, Computability, Complexity, Logic, North-Holland, Amsterdam, 1989.

doi:10.1016/S0166-218X(04)00394-4

[2] D.E. Knuth, Theory and Practice, Theoret. Comput. Sci. 90 (1991) 1–15.
[3] A.K. Lenstra, H.W. Lenstra, Jr., Algorithms in number theory, in: J. vanLeeuwen (ed.), Handbook of Computer Science, Vol. A, Elsevier, Amsterdam, 1990, pp. 673–715.
[4] M. Li, Lower bounds by Kolmogorov complexity, in: Proc. ICALP '85, Lecture Notes in Computer Science, Vol. 194, Springer, Berlin, 1985, pp. 383–393.
[5] A. Rajasekar, Semantics for logic programs, Ph.D. Thesis, Department of Computer Science, University of Maryland, 1989.

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- Each keyword (which can be a phrase of more than one word) should describe one single concept. Words like "and" or "of" should be avoided.
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- Use natural language: for instance "automatic error recovery" rather than "error recovery, automatic".
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The section will consider papers falling in the same areas as *Discrete Applied Mathematics*, and will essentially publish three kinds of contributions:

1. Regular papers, processed and accepted for their mathematical novelty, for which, in addition, the authors give and describe the corresponding computer codes.
2. Papers presenting significant implementations of algorithms from the literature, provided they are of particular interest to the scientific community. Criteria for acceptance of this kind of contribution will be: high efficiency, proved through extensive computational experiments, significantly improving that of the best existing codes (one order of magnitude is considered to be significant); novelty of the software, when no other code for the same problem is available to the public domain.
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To submit their work, authors are requested:

- To mail three hard copies of the manuscript to Publications Office, RUTCOR, Rutgers, The State University of New Jersey, 640 Bartholomew Road, Piscataway, NJ 08854-8003, USA, mentioning "Mathematical Software Section" in their covering letter and
- To send the codes electronically to Professors S. Martello and P. Toth at **smartello@deis.unibo.it/ptoth@deis.unibo.it**

Only source codes are considered. Accepted languages are FORTRAN and C. The codes must strictly conform to the ANSI 77 Standard FORTRAN and to the ANSI C Standard, respectively.

The codes must be clean, well documented and self contained. Use of machine-dependent constants and functions should be avoided or, when needed, clearly stated. Each code must contain a main subroutine or procedure which receives all the input data and yields all the output data as parameters. Such a routine must begin with a comments section providing:

- clear description of the domain of applicability
- meaning of each input and/or output parameter
- list of machine dependent constants and functions
- list of the routines composing the codes
- type of structure of all the parameters
- rules for the arrays dimensioning
- meaning of the main interval variables

Indentation is recommended for loops and if-then-else statements. The labels in each routine should be consecutive with constant step. Examples of well-structured codes can be found in Martello and Toth, "Knapsack Problems: Algorithms and Computer Implementations", Wiley, 1990.

Each code must be accompanied by a driver program which:

- defines the input data for one or more sample instances through assignment or input statements (in the latter case, the contents of the input records must be explicitly listed)
- calls the main routine of the code
- prints out the results on a standard unit. (The comments section of the driver program must provide the expected output.)

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